



United States Environmental Protection Agency
Washington, D.C. 20460

Water Compliance Inspection Report

Section A: National Data System Coding (i.e., PCS)

Transaction Code	NPDES	yr/mo/day	Inspection Type	Inspector	Fac Type
1 <u>N</u>	<u>WA4000616</u>	<u>1</u> <u>0</u> <u>2</u>	<u>=</u>	<u>R</u>	<u>3</u>
Remarks					
21					
66					
Inspection Work Days	Facility Self-Monitoring Evaluation Rating	BI	QA	Reserved	
67 <u> </u> 69	70 <u> </u>	71 <u> </u>	72 <u> </u>	73 <u> </u> 74	75 <u> </u> 80

Section B: Facility Data

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number)	Entry Time/Date	Permit Effective Date
R Bajema Farm Inc 792 E Badger Rd Lynden, WA 98264	9:48 am <u>02/12/2013</u>	
	Exit Time/Date	Permit Expiration Date
	10:00 am <u>02/12/2013</u>	
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s)	Other Facility Data (e.g., SIC NAICS, and other descriptive information)	
Roger Bajema, Owner, (b) (6)	Unpermitted	
	Denied Access	
Name, Address of Responsible Official/Title/Phone and Fax Number	NAICS: 11212 <u>8</u>	
Roger Bajema 792 E Badger Rd Lynden, WA 98264	Contacted <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Section C: Areas Evaluated During Inspection (Check only those areas evaluated)

<input type="checkbox"/> Permit	<input type="checkbox"/> Self-Monitoring Program	<input type="checkbox"/> Pretreatment	<input type="checkbox"/> MS4
<input type="checkbox"/> Records/Reports	<input type="checkbox"/> Compliance Schedules	<input type="checkbox"/> Pollution Prevention	
<input type="checkbox"/> Facility Site Review	<input type="checkbox"/> Laboratory	<input type="checkbox"/> Storm Water	
<input type="checkbox"/> Effluent/Receiving Waters	<input type="checkbox"/> Operations & Maintenance	<input type="checkbox"/> Combined Sewer Overflow	
<input type="checkbox"/> Flow Measurement	<input type="checkbox"/> Sludge Handling/Disposal	<input type="checkbox"/> Sanitary Sewer Overflow	

Section D: Summary of Findings/Comments

(Attach additional sheets of narrative and checklists, including Single Event Violation codes, as necessary)

SEV Codes	SEV Description
• • • • •	
• • • • •	
• • • • •	
• • • • •	

RECEIVED

FEB 27 2013

Inspection & Enforcement Management Unit
(IEMU)

Name(s) and Signature(s) of Inspector(s)	Agency/Office/Phone and Fax Numbers	Date
Sandra Brozuský <u>Sandra Brozuský</u>	EPA OCE 206-553-5317	2/25/13
Matt Vojik	EPA OCE 206-553-0716	
Michael Isensee	WA Dept Agriculture, 360-354-7421	
Signature of Management Q A Reviewer	Agency/Office/Phone and Fax Numbers	Date
<u>Jim Ogle</u>	EPA/OCE/IEMU 3-0955	2/5/13

NPDES WA4000616

ICIS.

2-28-2013

J. Brown

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A	Performance Audit	U	IU Inspection with Pretreatment Audit	!	Pretreatment Compliance (Oversight)
B	Compliance Biomonitoring	X	Toxics Inspection	@	Follow-up (enforcement)
C	Compliance Evaluation (non-sampling)	Z	Sludge - Biosolids	{	Storm Water-Construction-Sampling
D	Diagnostic	#	Combined Sewer Overflow-Sampling	}	Storm Water-Construction-Non-Sampling
F	Pretreatment (Follow-up)	\$	Combined Sewer Overflow-Non-Sampling	:	Storm Water-Non-Construction-Sampling
G	Pretreatment (Audit)	+	Sanitary Sewer Overflow-Sampling	~	Storm Water-Non-Construction-Non-Sampling
I	Industrial User (IU) Inspection	&	Sanitary Sewer Overflow-Non-Sampling	<	Storm Water-MS4-Sampling
J	Complaints	\	CAFO-Sampling	-	Storm Water-MS4-Non-Sampling
M	Multimedia	=	CAFO-Non-Sampling	>	Storm Water-MS4-Audit
N	Spill	2	IU Sampling Inspection		
O	Compliance Evaluation (Oversight)	3	IU Non-Sampling Inspection		
P	Pretreatment Compliance Inspection	4	IU Toxics Inspection		
R	Reconnaissance	5	IU Sampling Inspection with Pretreatment		
S	Compliance Sampling	6	IU Non-Sampling Inspection with Pretreatment		
		7	IU Toxics with Pretreatment		

Column 19: Inspector Code. Use one of the codes listed below to describe the *lead agency* in the inspection.

A	State (Contractor)	O	Other Inspectors, Federal/EPA (Specify in Remarks columns)
B	EPA (Contractor)	P	Other Inspectors, State (Specify in Remarks columns)
E	Corps of Engineers	R	EPA Regional Inspector
J	Joint EPA/State Inspectors—EPA Lead	S	State Inspector
L	Local Health Department (State)	T	Joint State/EPA Inspectors—State lead
N	NEIC Inspectors		

Column 20: Facility Type. Use one of the codes below to describe the facility.

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Columns 21-66: Remarks. These columns are reserved for remarks at the discretion of the Region.

Columns 67-69: Inspection Work Days. Estimate the total work effort (to the nearest 0.1 work day), up to 99.9 days, that were used to complete the inspection and submit a QA reviewed report of findings. This estimate includes the accumulative effort of all participating inspectors; any effort for laboratory analyses, testing, and remote sensing; and the billed payroll time for travel and pre and post inspection preparation. This estimate does not require detailed documentation.

Column 70: Facility Evaluation Rating. Use information gathered during the inspection (regardless of inspection type) to evaluate the quality of the facility self-monitoring program. Grade the program using a scale of 1 to 5 with a score of 5 being used for very reliable self-monitoring programs, 3 being satisfactory, and 1 being used for very unreliable programs.

Column 71: Biomonitoring Information. Enter D for static testing. Enter F for flow through testing. Enter N for no biomonitoring.

Column 72: Quality Assurance Data Inspection. Enter Q if the inspection was conducted as followup on quality assurance sample results. Enter N otherwise.

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This section is self-explanatory except for "Other Facility Data," which may include new information not in the permit or PCS (e.g., new outfalls, names of receiving waters, new ownership, other updates to the record, SIC/NAICS Codes, Latitude/Longitude).

Section C: Areas Evaluated During Inspection

Check only those areas evaluated by marking the appropriate box. Use Section D and additional sheets as necessary. Support the findings, as necessary, in a brief narrative report. Use the headings given on the report form (e.g., Permit, Records/Reports) when discussing the areas evaluated during the inspection.

Section D: Summary of Findings/Comments

Briefly summarize the inspection findings. This summary should abstract the pertinent inspection findings, not replace the narrative report. Reference a list of attachments, such as completed checklists taken from the NPDES Compliance Inspection Manuals and pretreatment guidance documents, including effluent data when sampling has been done. Use extra sheets as necessary.

*Footnote: In addition to the inspection types listed above under column 18, a state may continue to use the following wet weather and CAFO inspection types until the state is brought into ICIS-NPDES: K: CAFO, V: SSO, Y: CSO, W: Storm Water 9: MS4. States may also use the new wet weather, CAFO and MS4 inspections types shown in column 18 of this form. The EPA regions are required to use the new wet weather, CAFO, and MS4 inspection types for inspections with an inspection date (DTIN) on or after July 1, 2005.



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1 <input checked="" type="checkbox"/> N	WAU000617	1 3 0 2 1 2	RAS	R	2
Remarks					
21					
66					
Inspection Work Days	Facility Self-Monitoring Evaluation Rating	BI	QA	Reserved	
67 <input type="checkbox"/> 69	70 <input type="checkbox"/>	71 <input type="checkbox"/>	72 <input type="checkbox"/>	73 <input type="checkbox"/> 74	75 <input type="checkbox"/> 80

Section B: Facility Data

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number)	Entry Time/Date	Permit Effective Date
E. Badger Road Ditch, Lynden, WA 98264 48.964607, -122.445462	2/12/13	
	Exit Time/Date	Permit Expiration Date
	2/12/13	
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s)	Other Facility Data (e.g., SIC NAICS, and other descriptive information)	
	Reconnaissance Sampling of Public Right-Of-Way Ditch	
Name, Address of Responsible Official/Title/Phone and Fax Number	Contacted <input type="checkbox"/> Yes <input type="checkbox"/> No	

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<input type="checkbox"/> Permit	<input type="checkbox"/> Self-Monitoring Program	<input type="checkbox"/> Pretreatment	<input type="checkbox"/> MS4
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<input checked="" type="checkbox"/> Facility Site Review	<input type="checkbox"/> Laboratory	<input type="checkbox"/> Storm Water	
<input checked="" type="checkbox"/> Effluent/Receiving Waters	<input checked="" type="checkbox"/> Operations & Maintenance	<input type="checkbox"/> Combined Sewer Overflow	
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Name(s) and Signature(s) of Inspector(s)	Agency/Office/Phone and Fax Numbers	Date
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Matt Vojik	EPA OCE 206-553-0716	
Signature of Management Q A Reviewer	Agency/Office/Phone and Fax Numbers	Date
	EPA/OCE/IEMU 3-0955	4/5/13

NPDES WAU000617

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D Diagnostic	# Combined Sewer Overflow-Sampling	} Storm Water-Construction-Non-Sampling
F Pretreatment (Follow-up)	\$ Combined Sewer Overflow-Non-Sampling	: Storm Water-Non-Construction-Sampling
G Pretreatment (Audit)	+ Sanitary Sewer Overflow-Sampling	~ Storm Water-Non-Construction-Non-Sampling
I Industrial User (IU) Inspection	& Sanitary Sewer Overflow-Non-Sampling	< Storm Water-MS4-Sampling
J Complaints	\ CAFO-Sampling	- Storm Water-MS4-Non-Sampling
M Multimedia	= CAFO-Non-Sampling	> Storm Water-MS4-Audit
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	Exit Time/Date	Permit Expiration Date
	2/21/13 1:30 pm	
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s)	Other Facility Data (e.g., SIC NAICS, and other descriptive information)	
Roger Bajema, Owner, (b) (6)	Unpermitted NAICS: 11212 12	
Name, Address of Responsible Official/Title/Phone and Fax Number	Contacted	
Roger Bajema 792 E Badger Rd Lynden, WA 98264	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

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**NPDES
Inspection Report**

R Bajema Farm, Inc.

Lynden, WA

February 12, 2013 and February 21, 2013

**Prepared by:
Sandra Brozusky
Environmental Protection Agency, Region 10
Office of Compliance and Enforcement
Inspection and Enforcement Management Unit**



Table of Contents

- I. Facility Information
 - II. Inspection Information
 - III. Permit Information
 - IV. Background and Activity
 - V. Individuals Present
 - VI. Inspection Entry
 - VII. Inspection Chronology
 - VIII. Owner and Operator Information
 - IX. Number of Animals
 - X. Presence of Vegetation in the Confinement Areas
 - XI. Length of Animal Confinement
 - XII. Waste Management Process
 - XIII. Observed Discharge
 - XIV. Areas of Concern
 - XV. Receiving Water
 - XVI. Sample Collection and Analyses
 - XVII. Closing Conference
 - XVIII. Additional Observations
- Attachments
- A. Photograph Documentation
 - B. Facility Aerial Images
 - C. Sample Results

(Unless otherwise noted, all details in this inspection report were obtained from conversations with Roger Bajema or from observations during the inspection.)

I. Facility Information

Facility Name: R Bajema Farm, Inc.

Facility Type: Dairy (SIC = 0241, NAICS = 112120)

Facility Address: 792 E Badger Rd
Lynden, WA 98264
Whatcom County

GPS: 45.705667, -123.862500

Facility Phone #s: (b) (6) (Facility), (b) (6) (Cell)

Facility Contact(s): Roger Bajema, Owner and Operator

II. Inspection Information

Inspection Dates: Reconnaissance with Sampling: February 12, 2013
Compliance Inspection with Sampling: February 21, 2013

Arrival Time:	February 12, 2013 9:48 AM	February 21, 2013 11:06 AM
Departure Time:	2:20 PM	1:30 PM
Weather:	Raining on and off	Raining
Purpose:	Determination of compliance with the Clean Water Act	

III. Permit Information

This facility is currently unpermitted.

IV. Background and Activity

This is a dairy facility that has been owned and in operation by the current owner since 1958. The waste generated at this facility is mainly from the areas where animals are confined in the barn, milking parlor and dry cow confinement area. This waste includes manure and urine deposited in those confinement areas. The confinement areas are both covered and uncovered, encompassing a footprint of approximately 1.5 acres.

Waste from the main confinement areas is scraped or flushed into a below ground tank before being routed to an above ground storage lagoon. See the Waste Management section for more information.

Mr. Bajema owns and operates a farm equipment business, Roger Bajema Equipment, Inc. just west of the dairy facility. This business generally consists of farm equipment storage and an enclosed maintenance shop. Roger Bajema Equipment, Inc. was not part of this inspection.

V. Individuals Present

The inspectors present for the reconnaissance inspection on February 12, 2013 were Sandra Brozusky (EPA), Matt Vojik (EPA), Michael Isensee (Washington State Department of Agriculture) and Chris Luerkens (Washington State Department of Ecology). Inspectors present for the compliance sampling inspection on February 21, 2013 were Sandra Brozusky (EPA) and Matt Vojik (EPA).

The facility representative present during the February 21, 2013 inspection was Roger Bajema.

VI. Inspection Entry

We arrived at the facility at 9:40 AM on February 12, 2013. I attempted to contact a facility representative by ringing the doorbell of the front door to the business. With no response, I called the phone number posted on the front door specified for Mr. Bajema. At 9:48 AM I reached Mr. Bajema, introduced myself as an EPA inspector and stated that I was present to conduct a Clean Water Act compliance inspection of his dairy facility. Mr. Bajema stated that he was out of the state and would like EPA to make an appointment to conduct an inspection. I stated that it is EPA policy to conduct this type of inspection unannounced without appointments. I inquired if there was an employee that could guide us around that facility to complete the inspection. Mr. Bajema stated that he did not want EPA on his property while he was not present. He continued to state that it was dangerous for people to be on his property without him present. I inquired as to why it was dangerous, to which Mr. Bajema replied that it was just dangerous and that they like to protect their land. I told Mr. Bajema that I would relay information to EPA counsel and either myself or an EPA representative would contact him soon.

After Mr. Bajema and I spoke, Cliff Villa, EPA Office of Regional Counsel, left Mr. Bajema a message asking for a return call shortly.

Following my conversation with Mr. Bajema on February 12, 2013, the team of inspectors conducted reconnaissance observations and sampling from public right-of-ways. See the following section for more detail.

Mr. Bajema contacted me on February 13, 2013. I again discussed that my visit was to conduct a routine compliance inspection based on the Clean Water Act. Mr. Bajema

stated that he would be back in town on February 15, 2013 and that we could schedule an appointment for that day. I stated that EPA conducts this type of inspection unannounced but asked when he would be done with milking activities on any given day. He stated he is typically free anytime after 10:00 AM.

On February 21, 2013 I called Mr. Bajema on my cell phone approximately 30 minutes prior to arriving at the facility. With no answer, I left a message stating that EPA was driving to Mr. Bajema's facility to conduct a Clean Water Act inspection. Upon arrival, I knocked on the business door but there was no answer. I then called Mr. Bajema but there was no answer. Mr. Vojik proceeded to call Mr. Bajema from his cell phone and reached Mr. Bajema. At 11:06 AM we met Mr. Bajema at the front entrance to his facility. Upon meeting Mr. Bajema, we identified ourselves as EPA inspectors, presented our credentials and explained the purpose of our visit. Mr. Bajema did not deny us access at this time and accompanied us throughout the inspection.

VII. Inspection Chronology

On February 12, 2013 the inspection team conducted reconnaissance observations and sampling from public right-of-ways. The inspection team made observations of facility operations, surface runoff, the location of drains and drainage into a roadside ditch adjacent to the facility. This ditch, herein referred to as "the ditch" ran parallel to E. Badger Road, on the north side of E. Badger Road. At this time, the inspection team observed two points where water was entering the ditch. See the Observed Discharge section of this report for more detail. During this reconnaissance the inspection team also collected samples from three locations. See attachment A photographs 3, 5, and 11 and the Sample Collection and Analyses section of this report for more detail.

On February 21, 2013 the inspection team began the inspection with a brief opening conference inside the office at the facility. During the opening conference, I explained that we were at the facility to conduct a compliance inspection based on the Clean Water Act and presented Mr. Bajema with an EPA Small Business Resources Information Sheet. We continued by asking Mr. Bajema questions related to waste management, facility operations and general administration.

After the opening conference, we proceeded to conduct a tour of the facility. The facility tour included an inspection of the barns, waste storage lagoon, solids storage areas, roof runoff collection points, silage storage, various drains on or near the property and the ditch. Following the facility tour, we conducted sampling. During the sampling portion of the inspection, Mr. Bajema also collected separate samples.

We ended the inspection with a brief exit interview where we identified areas of concern.

VIII. Owner and Operator Information

This dairy is owned and operated by Roger Bajema.

IX. Number of Animals

At the time of inspection, Mr. Bajema indicated that the property housed a total of approximately 350 head, approximately 300 of which were milking.

X. Presence of Vegetation in the Confinement Areas

The barns at this facility (where the animals are fed and maintained) had concrete floors. Based on my observation at the time of the inspection, the confinement barns were devoid of vegetation.

XI. Length of Animal Confinement

According to Mr. Bajema, the animals are confined year round.

XII. Waste Management Process

The facility has one below ground tank, one storage lagoon and solid manure storage. According to Mr. Bajema, the storage lagoon holds approximately 4 million gallons. Waste from the confinement areas is either scraped or flushed into the below ground tank before being routed to the storage lagoon. The lagoon was the first one installed in Washington State, according to Mr. Bajema.

The facility also has one uncovered dry cow confinement area. At the time of this report, the EPA inspectors do not have enough information to determine how waste in this confinement area is handled. However, this confinement area floor consisted of wood chips and did not have any visible containment system to prevent waste runoff from exiting this confinement area. See attachment A photograph 2 for a view of the dry cow confinement area.

Mr. Bajema stated that the facility has a total of approximately 300 acres (owned and leased) of land used for waste application. Waste is applied using a sprinkler and a solids spreader. Mr. Bajema speculated that the most recent land application for liquids was November 1, 2012 and January 15, 2013 for solids.

XIII. Observed Discharge

On February 12 and 21, 2013, I saw a discharge into the north side of the ditch adjacent to the facility. On February 21, 2013 I also saw runoff coming from the facility and entering a drain. Mr. Bajema indicated that this drain routes water to the ditch. See the Areas of Concern section below for more details.

XIV. Areas of Concern

We inspected the facility including the confinement areas and the waste handling system and identified the following areas of concern during the inspection:

A. Discharge from Dry Cow Confinement Area

On February 21, 2013 the EPA inspectors toured the facility including a confinement area located on the southeast corner of the facility. According to Mr. Bajema, this confinement area holds dry cows. Mr. Bajema stated that the length of time which this confinement area houses dry cows varies from a couple of hours to multiple days, depending on the weather. This confinement area flooring was devoid of vegetation and contained a combination of what appeared to be wood chips and manure. See attachment A photographs 1-2 for views of this confinement area.

While walking the perimeter of this confinement area on February 21, 2013, I saw a trench had been dug out and ran from the southeast corner of the confinement area, along the southern perimeter toward a drain. Mr. Bajema stated water that enters this drain is routed via underground piping to the ditch. The EPA inspectors did not observe this trench or drain on February 12, 2013.

The dry cow confinement area was uncovered and exposed to precipitation. In general, the slope along the eastern perimeter of this confinement area was toward the road and trench. The trench would route runoff from portions of this confinement area toward the drain. On February 21, 2013 I saw water flowing in the trench and discharging into the drain. I also saw runoff near the eastern perimeter of the confinement area enter the trench.

EPA inspectors collected a water sample of runoff in the trench on February 21, 2013. This sample was analyzed for Fecal Coliform and E. coli. See the sample collection and analysis section of this report for more details. Also see attachment A photograph 3 for the location of this sample and attachment B aerials 2-3 for an overview of the sample location.

B. Roof Runoff Discharge

On February 12, 2013, the inspection team walked the ditch along the road side, to make observations of any discharges into the ditch. At this time, I saw a flow of water enter into the ditch, coming from the north, from the direction of the facility. EPA inspectors collected water samples of this flow which were analyzed for Biochemical Oxygen Demand, Fecal Coliform, E. coli, Potassium and Total Kjeldahl Nitrogen. See the Sample Collection and Analyses section of this report for the results of these analyses.

On February 21, 2013 we toured the facility, including observations of the roof runoff drainages for various barn roofs. The EPA inspectors inquired about where the roof runoff drainage was routed. Mr. Bajema stated this runoff ultimately enters the ditch through underground drain pipes. The EPA inspectors informed Mr. Bajema that we collected samples on February 12, 2013 of a flow of water entering this ditch and that the results of the Fecal Coliform and E. coli analysis appeared high (we did not provide a specific numerical result at this time). Mr.

Bajema then described a potential reason for the high results. Roof runoff from the confinement barn on the northern side of the facility drains into a cement trough. Water in this trough is routed to a drain hole, through underground piping and into the ditch. This piping travels east toward an application field and then south until it reached the ditch. Mr. Bajema stated that this pipe, at the location of the application field, was at a shallow depth in the ground, and had been broken. He presumed it was broken by the corn chopper when processing the corn in this field. Mr. Bajema continued to state that this broken pipe was potentially draining water collecting in a portion of the field that also contained applied manure. Water and applied manure that enter this broken pipe would then drain into the ditch.

Mr. Bajema stated he paid for a service to pump the water out of the ditch approximately 9 days prior to our February 21, 2013 inspection. He stated that he had this water pumped as a result of EPA's initial presence on February 12, 2013 and following his discovery that the pipe has been broken. He was unsure as to the length of time the pipe had been broken. Mr. Bajema stated that he used his employees to repair the pipe.

On February 21, 2013 the EPA inspectors collected water samples at the same roof runoff discharge point sampled on February 12, 2013. See the Sample Collection and Analyses section of this report for more detail.

See attachment A photographs 5-10 for details of this discharge. See attachment B aerials 1 and 3 for an overview of the sample location and the approximate flow of the roof runoff.

XV. Receiving Water

A road side ditch, "the ditch", runs adjacent to the facility, parallel to E. Badger Road. On February 21, 2013 the EPA inspectors followed this ditch until it passed through a culvert on the west side of Bender Road at the intersection of E. Badger Road. On the east side of Bender Road there was another open water conveyance that ran south. According to information obtained from the Whatcom County Conservation District, it appears that the open water conveyance that runs south along Bender Road (identified as Bender Road Ditch) ultimately discharges into Fishtrap Creek. According to the Washington State Department of Ecology (WDOE), Fishtrap Creek is a tributary to the Nooksack River and in 1995 WDOE completed a TMDL study for Fishtrap Creek. (<https://fortress.wa.gov/ecy/publications/publications/95328.pdf>)

On February 12, 2013 the ditch, at the culvert entry point at the intersection of E. Badger Road and Bender Road, did not have water flowing. On February 21, 2013 the same location of the ditch did have water flowing. See attachment A photographs 12-14 for views of the ditch at this location. Also see attachment B aerial 4 for more details on the ditch and the open water conveyance.

XVI. Sample Collection and Analyses

This section of the permit lays out details of samples collected on February 12, 2013 and February 21, 2013. All samples taken by EPA inspectors were placed in a cooler on ice following collection, preserved as necessary and hand delivered to each laboratory for analysis. The EPA Manchester Lab was utilized for Potassium, Phosphorus, Nitrate-Nitrite and Total Kjeldahl Nitrogen (TKN) analysis. Avocet Environmental Testing in Bellingham, Washington was utilized for Fecal Coliform, E. Coli and Biochemical Oxygen Demand (BOD) analysis. The following describes the results of these samples:

February 12, 2013:

On February 12, 2013 the EPA inspection team conducted reconnaissance sampling of various water flows that were adjacent to the facility. These samples were collected in order to gather information about whether these water flows adjacent to the facility contained various pollutants. At this time, the EPA inspection team observed a flow of water entering the side of the ditch and was coming from the direction of the facility.

Sample #13064100: Water samples were collected of the water in the ditch, adjacent to the facility. Specifically, the sample was collected approximately 75 feet downstream from the beginning surface flow of the ditch. The purpose of this sample was to determine whether there were pollutants in the ditch just downstream of the unknown flow of water entering the side of the ditch. See attachment A photograph 1 for this sample location. Samples were analyzed for Potassium, Phosphorus, Nitrate-Nitrite, TKN, BOD, Fecal Coliform and E. coli. The results are as follows:

Potassium	Phosphorus	Nitrate-Nitrite	TKN	BOD	Fecal Coliform/E. coli
109,000 ug/L	6.79 mg/L	Below Detectible Level	71.8 mg/L	370 mg/L	580,000 FC/100 ml 580,000 E. coli/100 ml

Sample #13064101: Water samples were collected of an unknown flow of water entering the side of the ditch. This flow was coming from the north, from the direction of the facility and discharging into the ditch approximately 50 feet downstream from the beginning surface flow of the ditch. The samples were collected of the flow of water, just prior to entering the ditch. The purpose of this sample was to determine whether there were pollutants in this flow of water entering and contributing to the water in the ditch. See attachment A photographs 5-6 for views of this water flow and sample location. Samples were analyzed for Potassium, Phosphorus, Nitrate-Nitrite, TKN, BOD, Fecal Coliform and E. coli. The results are as follows:

Potassium	Phosphorus	Nitrate-Nitrite	TKN	BOD	Fecal Coliform/E. coli
65,300 ug/L	4.68 mg/L	Below Detectible Level	51.8 mg/L	220 mg/L	270,000 FC/100 ml 270,000 E. coli/100 ml

Sample #13064102: This water sample was collected of the flow of water entering the beginning of the ditch. The purpose of this sample was to determine whether pollutants were entering the ditch. At the time of this sample collection, the rain and flow of water from the beginning of the ditch had diminished. The minimal flow provided only enough flow for one sample collection of Fecal Coliform and E. coli. See attachment A photograph 11 for a view of this sample location.

The E. coli result of the sample collected in this location is 38,000 E. coli/100ml. The Fecal Coliform result of the sample collected in this location is 38,000 FC/100ml.

Sample #13064103: This water sample was a transfer blank. The purpose of this sample was to determine if contaminants were introduced into the sample through field sampling procedures.

The E. coli result of this sample is <2 E. coli/100ml. The Fecal Coliform result of this sample is <2 FC/100ml.

February 21, 2013

During the field tour of the inspection, the EPA inspection team collected water samples to document various discharges from the facility.

Sample #13074100: The water sample was collected of the roof runoff drainage, just prior to discharging into the ditch, approximately 50 feet downstream from the beginning surface flow of the ditch. The purpose of this sample was to determine whether there were pollutants in this flow of water from the facility entering and contributing to the water in the ditch. This sample location was the same as sample #13064101 taken on February 12, 2013. The sample was analyzed for Fecal Coliform and E. coli.

The E. coli result of the sample collected in this location is 31,000 E. coli/100ml. The Fecal Coliform result of the sample collected in this location is 31,000 FC/100ml.

Sample #13074101: This water sample was collected of the flow of water entering the beginning of the ditch. The purpose of this sample was to determine whether pollutants from the facility were entering the ditch. This sample location was the same as sample #13064102. The sample was analyzed for Fecal Coliform and E. coli.

The E. coli result of the sample collected in this location is 24,000 E. coli/100ml. The Fecal Coliform result of the sample collected in this location is 24,000 FC/100ml.

Sample #13074102: This water sample was collected of the surface flow of water from the eastern perimeter of the dry cow confinement area. The sample was collected of the flow prior to entering a drain, which according to Mr. Bajema routes water to the ditch. The purpose of this sample was to determine whether pollutants from the dry cow confinement area were entering the drain and contributing to the water in the ditch. See attachment A photograph 3 for a view of the sample location and water flow. The sample was analyzed for Fecal Coliform and E. coli.

The E. coli result of the sample collected in this location is 240,000 E. coli/100ml. The Fecal Coliform result of the sample collected in this location is 240,000 FC/100ml.

Sample #13074103: This water sample was a transfer blank. The purpose of this sample was to determine if contaminants were introduced into the sample through field sampling procedures.

The E. coli result of this sample is <1 E. coli/100ml. The Fecal Coliform result of this sample is <1 FC/100ml.

See attachment C for the full details of the sample results. Matt Vojik and I (Sandra Brozusky) collected the samples at the time of inspection. Also see attachment B aerial 3 for approximate sample locations.

XVII. Closing Conference

The closing conference was held following the site inspection and sample collection. The individuals present included the inspection team (Sandra Brozusky and Matt Vojik) and Roger Bajema. During the closing conference I discussed the areas of concern identified above. Mr. Bajema requested copies of the inspection report and the results for samples collected by EPA.

XVIII. Additional Observations

A. Additional Drains Routing Water to Ditch

Two additional drains on or near the property were noted during the February 21, 2013 inspection, which according to Mr. Bajema both route water to the ditch. See attachment B aerial 3 for a view of the location of these drains.

One drain was located on the property just south of the milk house. On February 12 and 21, 2013 we observed water flowing into this drain. According to Mr. Bajema this drain is used to drain roof runoff primarily from the milk house. Occasionally Mr. Bajema will pump water from a well to help remove sediment

and route this water to the drain. See attachment A photographs 18 and 19 for more details of this drain.

The second drain was located in between the dry cow confinement area and the ditch, on what appeared to be public roadway. Mr. Bajema stated that he did not install this drain and was put in by the city or county for runoff from the public road. On February 12 and 21, 2013 we observed water flowing into this drain. See attachment A photograph 15 for a view of this drain.

B. Separate Sample Collection by Mr. Bajema

On February 21, 2013, Mr. Bajema stated that he wanted to collect personal samples along with the EPA inspection team for individual analysis. The EPA inspection team was able to provide one sample bottle for Mr. Bajema to use for Fecal Coliform and E. coli analysis. The remaining samples for Mr. Bajema's set were collected in glass jars he obtained. The EPA inspectors physically collected these samples for Mr. Bajema, following our own sample collection. The EPA inspectors stated that delivery and analysis of these samples were of the responsibility of Mr. Bajema. Mr. Bajema's samples were from the same sample location as sample # 13074100 and # 13074101. However, Mr. Bajema did not collect at the same location of sample #13074102. Instead Mr. Bajema collected a sample of the flow of water in a channel that drained runoff from the direction of the road into the trench next to the dry cow confinement area. See attachment A photograph 4 for a view of this sample location.

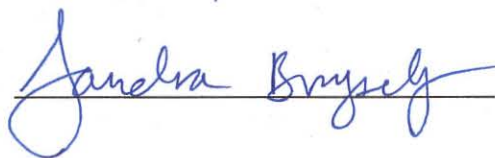
C. Road Side Ditch West of Facility

Approximately 200 yards west of the beginning surface flow in the ditch is another ditch. On February 12 and 21, 2013 the EPA inspectors walked west of the facility to make observations of any water flowing in this ditch. The EPA inspectors were inquiring about whether the ditch west of the facility may be contributing to the water flow seen in the ditch. On both February 12 and 21, 2013 this ditch west of the facility did not have water flowing in it. This ditch did not have observable piping or a culvert that would suggest the two ditches were connected. In addition, Mr. Isensee stated that this additional ditch on the west side of the facility is slopped in a westerly direction, away from the facility. See attachment A photograph 20 for a view of this ditch and attachment B aerial 1 for the location of this ditch.

Report Completion Date:

4/16/13

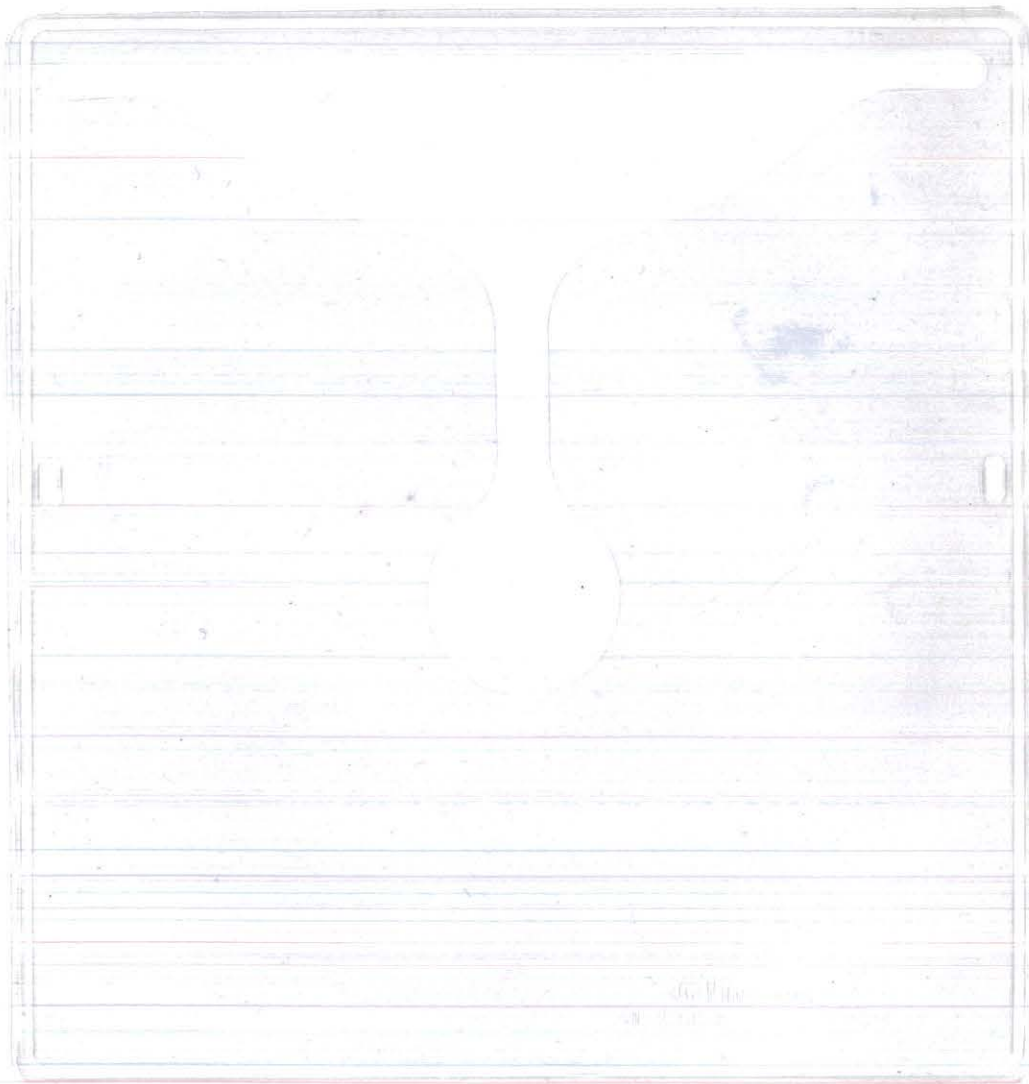
Lead Inspector Signature:



ATTACHMENT A

Photograph Documentation R Bajema Farm, Inc.

Unless otherwise noted, all photographs were taken by Matt Vojik on February 12, 2013 or February 21, 2013 with a Panasonic Lumix model: DMC-FH25.

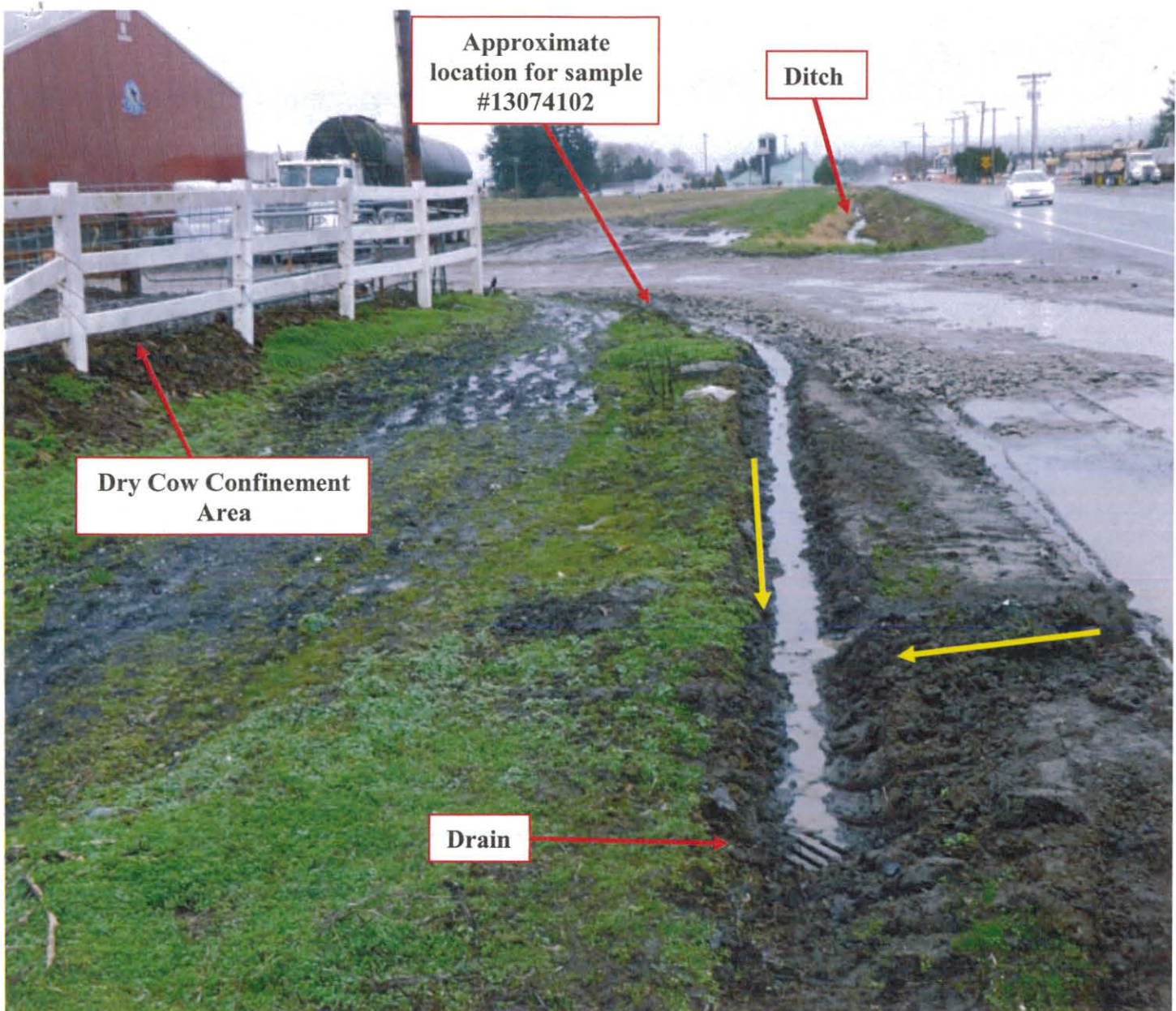




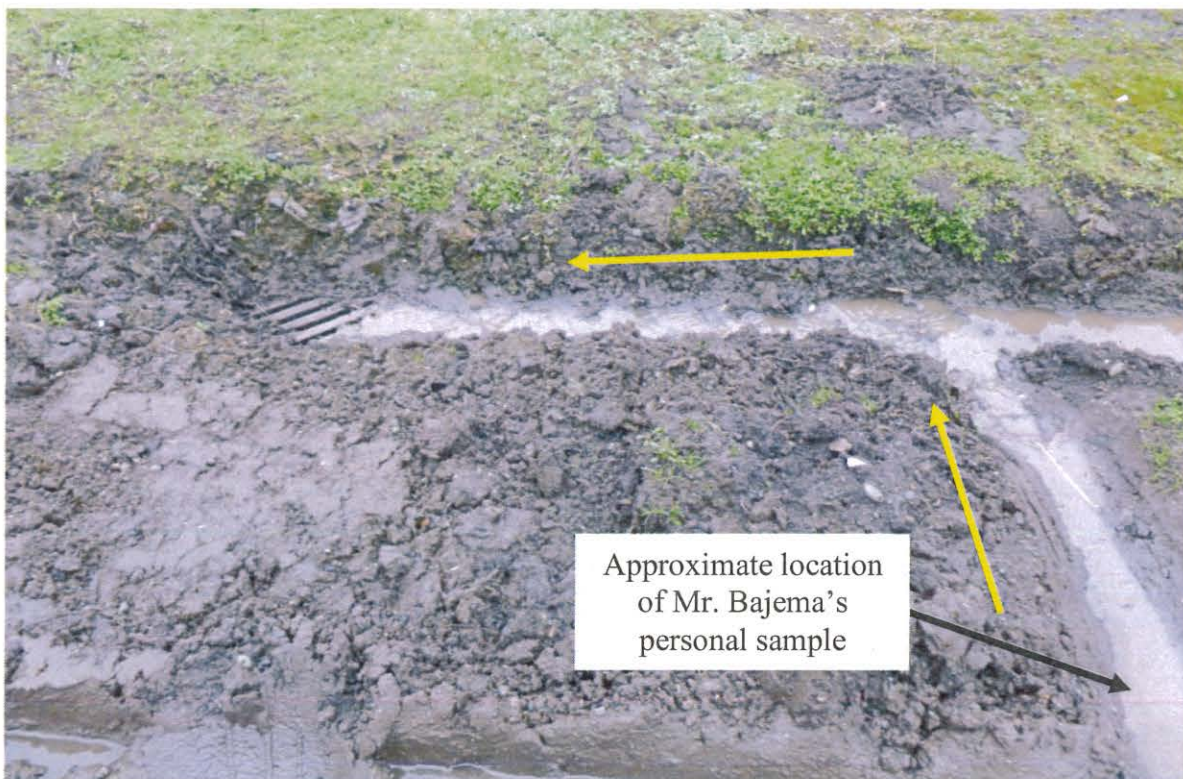
Photograph #1: View of the southern end of the facility and ditch from E. Badger Road. The yellow arrow points to the dry cow confinement area. The red arrow points to the location of sample # 13064100. This photograph was taken by Michael Isensee, Washington Department of Agriculture on February 12, 2013.



Photograph #2(P1010090-taken on 2/21/13): Looking west, this is a closer view of the dry cow confinement area. On February 21, 2013 the EPA inspectors collected a water sample of flow coming from the direction of the eastern perimeter of the dry cow confinement area. The yellow arrow indicates the direction of flow at this time. In general, the slope along the eastern perimeter of the dry cow confinement area was toward the road and trench.



Photograph #3(P1010094-taken on 2/21/13): Looking east, this is a view of the trench located adjacent to the dry cow confinement area and the drain. Water flowing from the direction of the eastern perimeter of the dry cow confinement area was entering this trench and flowed into the drain seen here on February 21, 2013. According to Mr. Bajema, this drain routes water to the ditch, seen in the background of this photograph. The yellow arrows indicate the direction of flow in the trench.



Photograph #4(P1010094-taken on 2/21/13): Another view of the drain seen in the previous picture. Runoff from the direction of the road was also entering this drain, via the channel seen in the bottom right corner of the image. Mr. Bajema collected his personal sample of the water flowing in this channel. The yellow arrows indicate the direction of flow at the time of inspection.



Photograph #5(P1010066-taken on 2/12/13): Looking northwest, this view is of the ditch and the flow of water entering the side of the ditch, highlighted by the yellow box. Mr. Bajema stated that this flow of water is from the northern barn roof runoff. This flow of water is the location for sample #13064101 and # 13074100.



Photograph #6(P1010065-taken on 2/12/13): This is a close up of the water flow seen in the previous picture.



Photograph #7(P1010086-taken on 2/21/13): Looking at the northeast corner of facility, specifically the northern barn. The yellow arrow points to the location of the roof runoff drain.



Photograph #8(P1010081-taken on 2/21/13): View of the cement trough that captures and routes roof runoff into the drain (indicated by the yellow circle) and ultimately into the ditch.



Photograph #9(P1010082-taken on 2/21/13): Close up view of the drain (indicated by the yellow circle) that routes roof runoff into the ditch. Note the cement trough and drain are elevated above ground level.



Photograph #10(P1010095-taken on 2/21/13): Looking south, this is a view of the field where, according to Mr. Bajema the pipe routing roof runoff to the ditch was broken. On February 21, 2013 there were pieces of broken pipe in this vicinity. The yellow circle highlights some of those pieces. Mr. Bajema stated that manure that had been applied to this field may have mixed with water and drained into the ditch. The ditch runs parallel to the road seen in the background of the photo.



Photograph #11: View of water flowing at the beginning of the ditch. This is the sample location for #13064102 and #13074101. This photograph was taken by Michael Isensee, Washington Department of Agriculture on February 12, 2013.



Photograph #12(P1010101-taken on 2/21/13): Standing at the intersection of Bender Road and E. Badger Road, this is a view of the ditch, looking west back at the facility.



Photograph #13(P1010102-taken on 2/21/13): Facing east, this view is a continuation of the ditch from the previous photograph where it enters a culvert at the intersection of Bender Road and E. Badger Road. On February 21, 2013 there was water flowing at this point of the ditch, seen here. On February 12, 2013 water was not flowing at this point of the ditch.



Photograph #14(P1010105-taken on 2/21/13): Looking south, this is a view of an open water conveyance that runs south along the east side of Bender Road. The ditch adjacent to the facility that runs along E. Badger Road flows toward this culvert in a perpendicular direction. In this image, flow enters a culvert north of the intersection of E. Badger Road and Bender Road. E. Badger Road appears in the background.



Photograph #15(P1010064-taken on 2/12/13): Looking northwest, this is a view of the dry cow confinement area and a drain. Mr. Bajema stated that this drain was installed by the city or county and routes water to the ditch.



Photograph #16(P1010076-taken on 2/21/13): Looking northeast this is a partial view of the lagoon used at the facility.



Photograph #17(P1010073-taken on 2/21/13): Looking north this is a view of the elevated lagoon on the left and one solid storage area on the right. Mr. Bajema indicated that solids will be scraped off the top of the lagoon and stored in the area, indicated by the red arrow.



Photograph #18(P1010062-taken on 2/12/13): Looking east this is a view of a drain located on the south side of the milk house. According to Mr. Bajema, this drain routes water to the ditch and is used to drain roof runoff primarily from the milk house. A small pump, which appears in the background, is used to periodically purge a water well in this location outside the milk house. This purged well water also drains to this area. The EPA inspectors observed the pump in operation on February 12, 2013.



Photograph #19(P1010061-taken on 2/12/13): A close up view of the drain seen in the previous picture. The red arrow points to the pump used for well water. The well is located just behind the pump seen here.



Photograph #20(P1010058-taken on 2/12/13): Looking east, this is a view of a ditch on the west side of the facility, along E. Badger Road. This ditch did not have water flowing on February 12, 2013 and February 21, 2013. There was no observable piping or a culvert that would route water in an easterly direction toward the facility or would suggest that the two ditches were connected. The facility appears in the background.



Photograph #21(P1010098-taken on 2/21/13): On February 21, 2013 the EPA inspection team collected water samples. During this time, Mr. Bajema also collected water samples. Mr. Bajema indicated that the water that EPA was collecting was good enough to drink. Mr. Bajema requested that the EPA inspectors take a photograph of him drinking from the sample he collected.

ATTACHMENT B

Facility Aerial Images **R Bajema Farm, Inc.**

(Aerials retrieved from Bing.com)

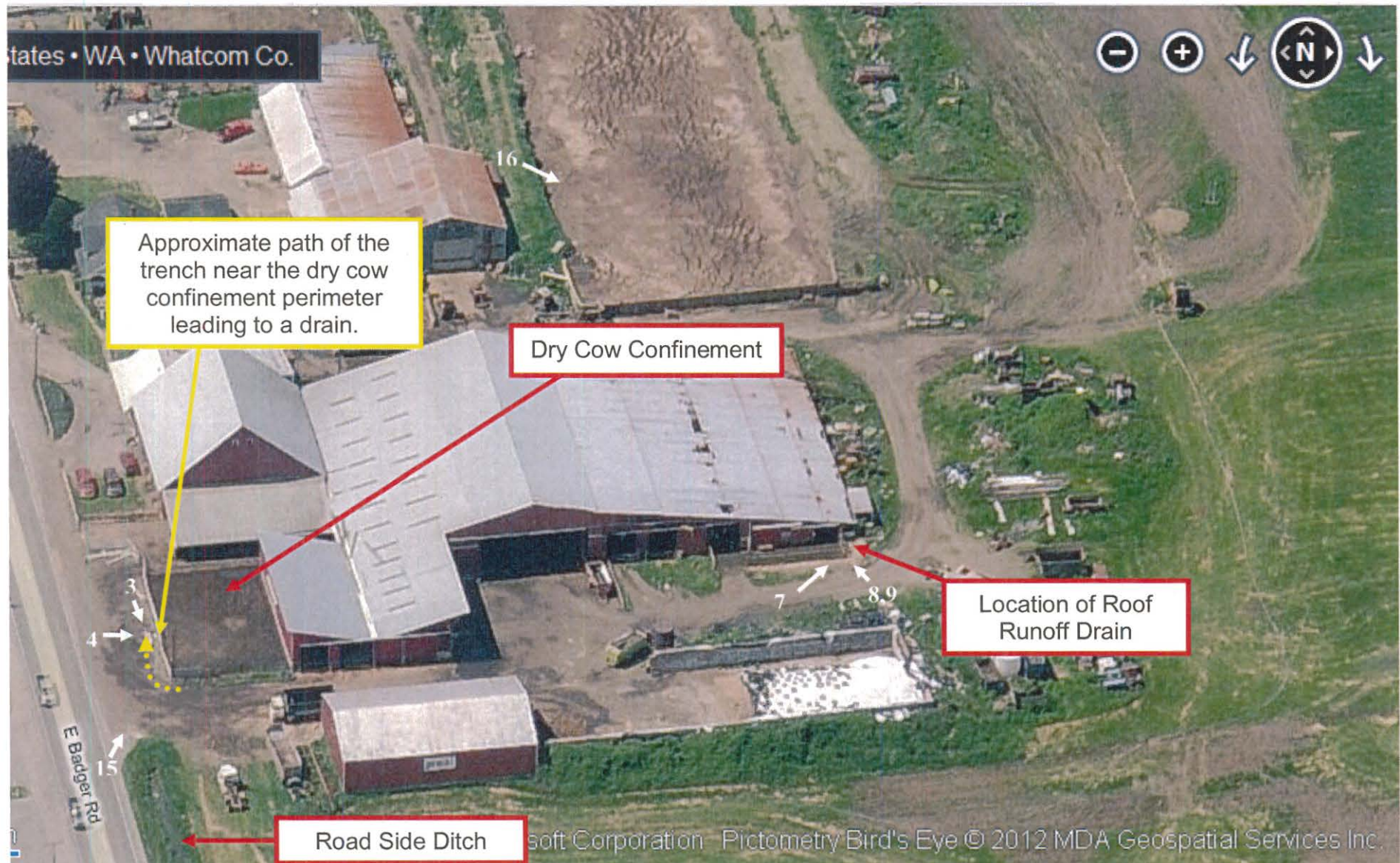
Aerial 1

Contains various photograph locations and direction



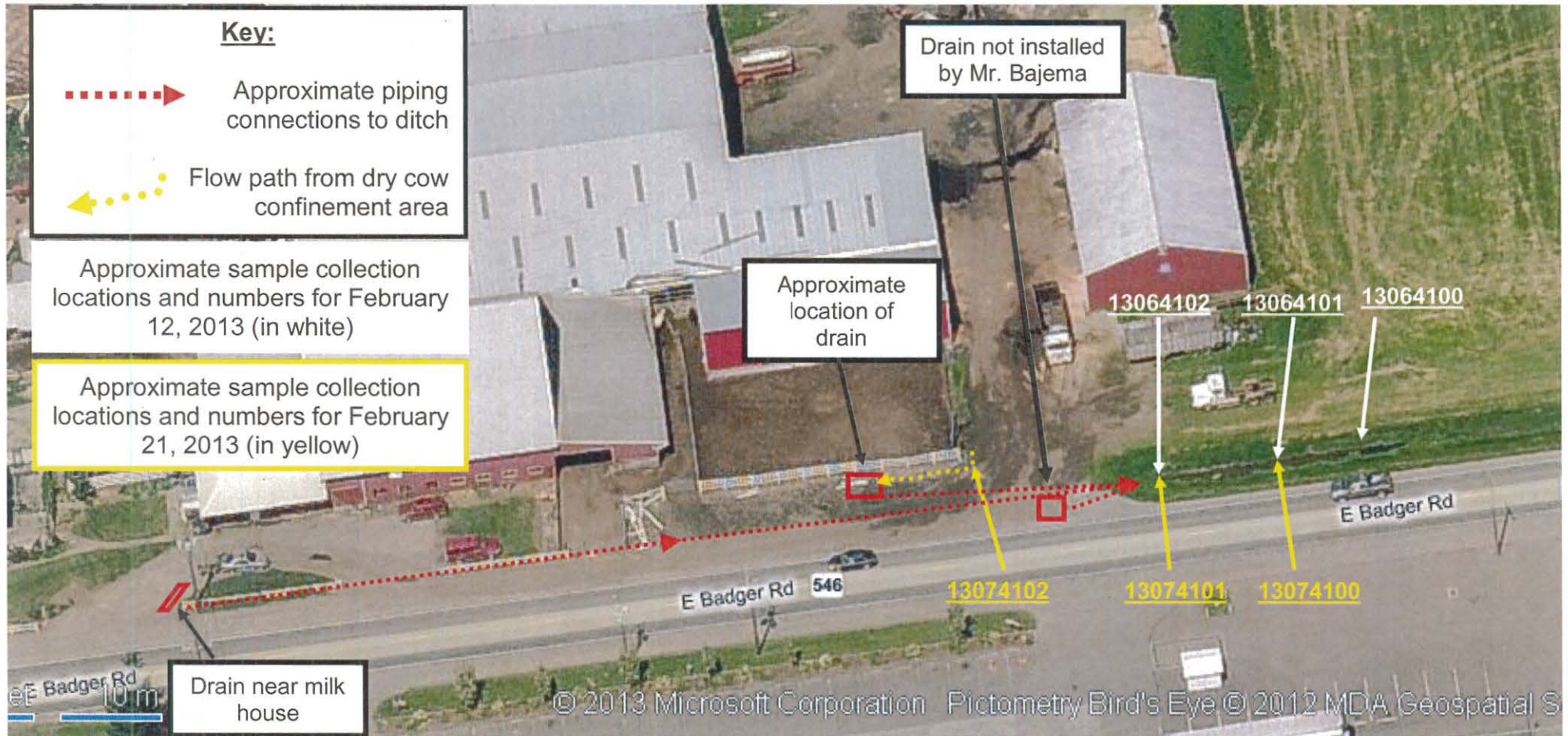
Aerial 2

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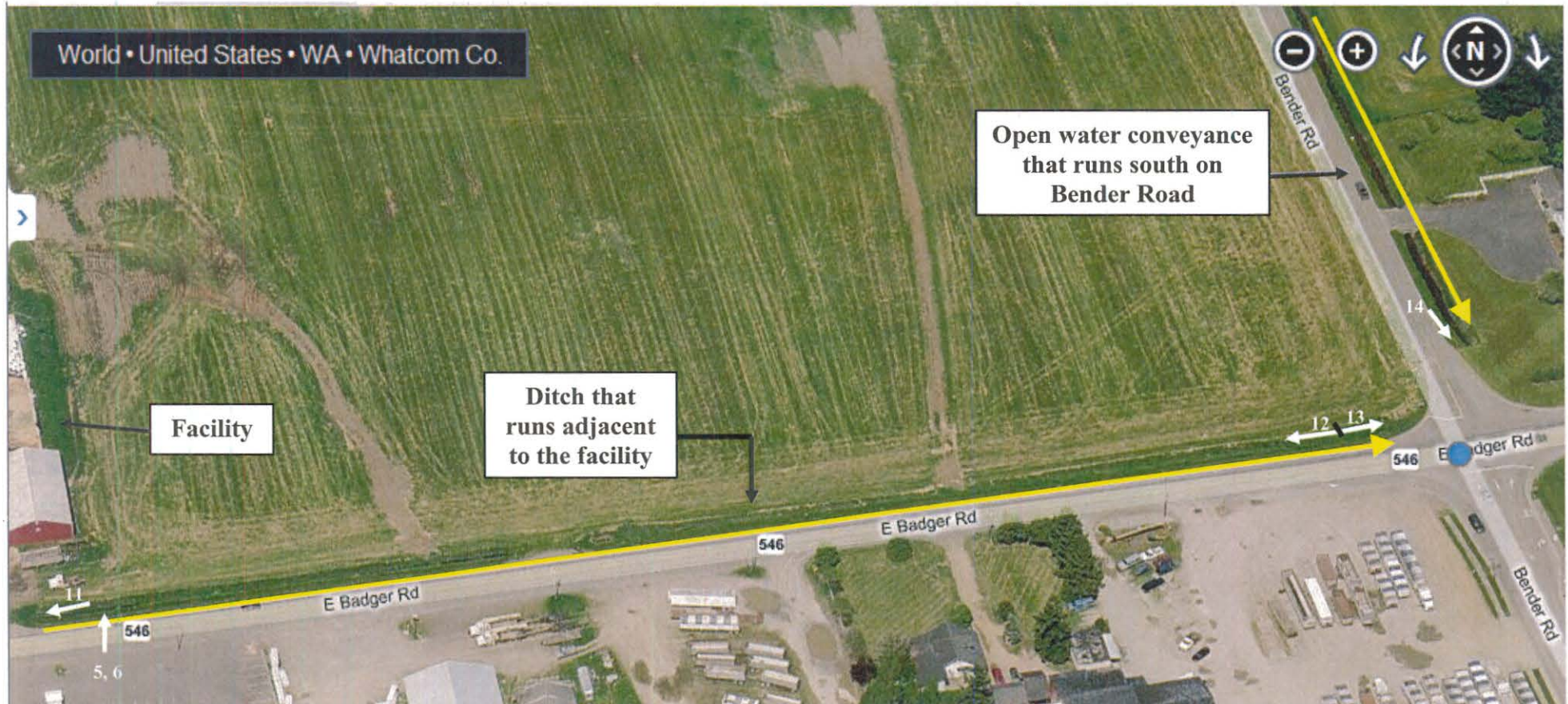
Aerial 3

Approximate Sample Locations and Numbers



Aerial 4

Contains various photograph locations and direction



ATTACHMENT C

Sample Results R Bajema Farm Inc



Client EPA
Contact Name Sandra Brozusky

Chain of Custody 5886

Date Received 02/12/13
Date Reported 02/18/13

Project Name R Bajema Farm Inc
Matrix Water

Sample Identification	Log Number	Date Sampled	Analyte	Method	Results	Units	PQL	Date Analyzed	Analyst
13064100	05722490	02/12/13	Fecal Coliform	sm9222D	580,000	FC/100 mL	--	02/12/13	DH
			E. Coli	sm9222G	580,000	E. coli/100mL	--	02/12/13	DH
			BOD	sm5210B	370	mg/L	120	02/13/13	AT
13064101	05722491	02/12/13	Fecal Coliform	sm9222D	270,000	FC/100 mL	--	02/12/13	DH
			E. Coli	sm9222G	270,000	E. coli/100mL	--	02/12/13	DH
			BOD	sm5210B	220	mg/L	120	02/13/13	AT
13064102	05722492	02/12/13	Fecal Coliform	sm9222D	38,000	FC/100 mL	--	02/12/13	DH
			E. Coli	sm9222G	38,000	E. coli/100mL	--	02/12/13	DH
13064103 - Transfer Blank	05722493	02/12/13	Fecal Coliform	sm9222D	<2	FC/100 mL	--	02/12/13	DH
			E. Coli	sm9222G	<2	E. coli/100mL	--	02/12/13	DH

QUALITY CONTROL DATA

Test Performed	QC Known Recovery	QC Recovery Limits	Duplicate Difference
BOD	101%	90-110%	<1%

<: Less Than

--: No Existing Value

BOD: Biochemical Oxygen Demand

FC: Fecal Coliform

PQL: Practical Quantitation Limit


Laboratory Supervisor

Avocet Environmental Testing

1500 North State Street, Suite 200

Bellingham, WA 98225-4551

(360) 734-9033



Client EPA
Contact Name Sandra Brozusky

Chain of Custody 5890

Date Received 02/21/13

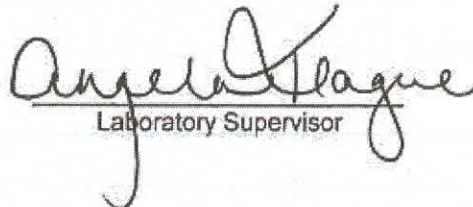
Date Reported 02/25/13

Project Name Roger Bajema
Matrix Water

Sample Identification	Log Number	Date Sampled	Test Performed	Method	Results	Units	Date Analyzed	Analyst
13074100 - 50' from ditch	05722800	02/21/13	Fecal Coliform	sm9222D	31,000	FC/100 mL	02/21/13	DH
			E. Coli	sm9222G	31,000	E. coli/100mL	02/21/13	DH
13074101 - start of ditch	05722801	02/21/13	Fecal Coliform	sm9222D	24,000	FC/100 mL	02/21/13	DH
			E. Coli	sm9222G	24,000	E. coli/100mL	02/21/13	DH
13074102 - ditch near dry cow	05722802	02/21/13	Fecal Coliform	sm9222D	240,000	FC/100 mL	02/21/13	DH
			E. Coli	sm9222G	240,000	E. coli/100mL	02/21/13	DH
13074103 - Transfer Blank	05722803	02/21/13	Fecal Coliform	sm9222D	<1	FC/100 mL	02/21/13	DH
			E. Coli	sm9222G	<1	E. coli/100mL	02/21/13	DH

<: Less Than

FC: Fecal Coliform


Laboratory Supervisor



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

MEMORANDUM

SUBJECT: Data Release for Inorganic Chemistry Results from the
Region 10 USEPA Laboratory

PROJECT NAME: Whatcom Cafo Inspections (R. Bajema Farm, Inc.)

PROJECT CODE: ESD-260F

FROM: Gerald Dodo, Supervisory Chemist
Office of Environmental Assessment
USEPA Region 10 Laboratory

TO: Jon Klemesrud, Project Manager
Office of Compliance and Enforcement,
Inspection and Enforcement Mgmt Unit,
USEPA Region 10

I have authorized release of this data package. Attached you will find the Metals results for the Whatcom Cafo Inspections project for the sample collected on 02/12/2013. For further information regarding the attached data, contact Katie Adams at (360) 871-8748.



US EPA Region 10 Laboratory

Multi-Analyte Final Report



Project Code : ESD-260F

Site : WHATCOM CAFO INSPECTIONS: R. BAJEMA FARMS INC

Contact : Sandra Brozusky

Account : 20132014B10P501E50

Sample : 13064100

Description : 75' From Start of Ditch

Matrix : Water

Collected : 2/12/2013 1:00:00PM

Weight Basis : N/A

Parameter : ICP-SAS

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440097	Potassium	109000	ug/L		2/20/13	4

Sample : 13064101

Description : 50' From Start of Ditch

Matrix : Water

Collected : 2/12/2013 1:20:00PM

Weight Basis : N/A

Parameter : ICP-SAS

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440097	Potassium	65300	ug/L		2/20/13	4

Sample : IW021913ABL Blank

Description : Blank

Matrix : Liquid

Weight Basis : N/A

Parameter : ICP-SAS

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440097	Potassium	700	ug/L	U	2/20/13	2

Sample : IW021913AL1 Lab Control Std

Description : Lab Control Standard

Matrix : Liquid

Weight Basis : N/A

Parameter : ICP-SAS

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
7440097	Potassium	102	%Rec		2/20/13	2

Sample : IW021913AL2 Lab Control Std#2

Description : Lab Control Standard Dup.

Matrix : Liquid

Weight Basis : N/A

Parameter : ICP-SAS

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
7440097	Potassium	100	%Rec		2/20/13	2



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

**QUALITY ASSURANCE MEMORANDUM
FOR INORGANIC CHEMICAL ANALYSES**

DATE: February 20, 2013

TO: Jon Klemesrud, Project Manager
Office of Compliance and Enforcement, Inspection and Enforcement Mgmt Unit, US EPA Region 10

From: Theresa McBride, Chemist
Office of Environmental Assessment, US EPA Region 10 Laboratory

SUBJECT: Quality Assurance Review of Whatcom CAFO Inspections (R. Bajema Farm, Inc.) for Metals

Project Code: ESD-260F
Account Code: 20132014B10P501E50

The following is a quality assurance review of the results of the analysis of 2 water samples for Metals analysis. The samples were submitted for the Whatcom CAFO Inspections Project. The analysis was performed by EPA chemists at the US EPA Region 10 Laboratory in Port Orchard, WA, following US EPA and Laboratory guidelines.

This review was conducted for the following samples:

13064100 13064101

Data Qualifications

Comments below refer to the quality control specifications outlined in the Laboratory's current Quality Assurance Manual, Standard Operating Procedures (SOPs) and the Quality Assurance Project Plan (QAPP). No excursions were required from the method Standard Operating Procedure.

All measures of quality control met Laboratory/QAPP criteria.

For those tests for which the USEPA Region 10 Laboratory has been accredited by the National Environmental Laboratory Accreditation Conference (NELAC), all requirements of the current NELAC Standard have been met. The Region 10 Laboratory's Quality System has also been accredited to the Standards of the National Environmental Laboratory Accreditation Conference (NELAC).

1. Sample Transport and Receipt

Upon sample receipt, all conditions met Laboratory/QAPP requirements for this project.

2. Sample Holding Times

The concentration of an analyte in a sample or sample extract may increase or decrease over time depending on the nature of the analyte. For this reason, holding time limits are recommended for samples. The samples covered by this review met method holding time recommendations, where applicable.

12. Definitions

Accuracy - the degree of conformity of a measured or calculated quantity to its actual value.

Duplicate Analysis – when a duplicate of a sample (DS), a matrix spike (MSD), or a laboratory control sample (LCS) is analyzed, it is possible to use the comparison of the results in terms of relative percent difference (RPD) to calculate precision.

Internal standards - Compounds used to help evaluate instrument analytical performance for individual samples. Internal standards provide an instrument response for reference to accurately quantify the analytes for all associated instrumental analyses.

Laboratory Control Sample (LCS) - a clean matrix spiked with known quantities of analytes. The LCS is processed with samples through every step of preparation and analysis. Measuring percent recovery of each analyte in the LCS provides a measurement of accuracy for the analyte in the project samples. A laboratory control sample is prepared and analyzed at a frequency no less than one for every 20 project samples.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) - Sample analyses performed to provide information about the effect of the sample matrix on analyte recovery and measurement within the project samples. To create the MS/MSD, a project sample is spiked with a known quantity of analyte and the percent recovery of the analyte is determined.

Method Blank- An analytical control that is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background and reagent contamination. A method blank is prepared and analyzed for every batch of samples at a minimum frequency of one per every 20 samples. To produce unqualified data, the result of the method blank analysis is required to be less than the MRL and less than 10 times the amount of analyte found in any project sample.

Minimum Reporting Level (MRL) - the smallest measured concentration of a substance that can be reliably measured using a given analytical method.

Peak Integrations - The output of many analytical instruments is a peak which represents the quantity of analyte in the sample. The instrument automatically integrates the peak area to provide the concentration of the analyte; however, sometimes these peaks need to be manually integrated by the analyst.

Precision – the degree of mutual agreement or repeatability among a series of individual results.

Relative Percent Difference – The difference between two sample results divided by their mean and expressed as a percentage.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

MEMORANDUM

SUBJECT: Data Release for Inorganic Chemistry Results from the
Region 10 USEPA Laboratory

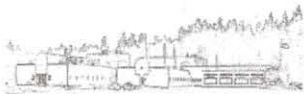
PROJECT NAME: Whatcom CAFO Inspections (R. Bajema Farm, Inc.)

PROJECT CODE: ESD-260F

FROM: Gerald Dodo, Supervisory Chemist
Office of Environmental Assessment
USEPA Region 10 Laboratory

TO: Jon Klemesrud, Project Manager
Office of Compliance and Enforcement,
Inspection and Enforcement Mgmt Unit,
USEPA Region 10

I have authorized release of this data package. Attached you will find the Total Kjeldahl Nitrogen and Nitrate plus Nitrite results for the Whatcom CAFO Inspections project for the samples received on 02/14/2013. For further information regarding the attached data, contact Katie Adams at (360) 871-8748.



US EPA Region 10 Laboratory

Multi-Sample Final Report



Project Code : ESD-260F

Site : WHATCOM CAFO INSPECTIONS: R. BAJEMA FARMS INC

Contact : Sandra Brozusky

Account : 20132014B10P501E50

Parameter(s): Kjel-N

Analyte: *90031 - Total Kjeldahl Nitrogen

Weight Basis : Wet

Prep Method(s): 351.2 - Nitrogen, (Kjeldahl, Total), Colorimetric, Semi-Automated Block Digester

Analytical Method: 351.2 - Nitrogen, (Kjeldahl, Total), Colorimetric, Semi-Automated Block Digester

Target Analyte Results:

Sample	COC Description	Lab Matrix	Result	Unit	Qual.	Analysis Date	Dilution
13064100 sam	75' From Start of Ditch	Water	71.8	mg/L		2/28/13	10
13064101 sam	50' From Start of Ditch	Water	51.8	mg/L		2/28/13	10
13064104 sam	Bottle/ Preservative Blank	Water	0.51	mg/L	U	2/28/13	1
13064101 du	50' From Start of Ditch	Water	49.2	mg/L		2/28/13	10
IW022713ABL blk	Blank	Liquid	0.51	mg/L	U	2/28/13	1

Spiked Compounds:

Sample	COC Description	Lab Matrix	Result	Unit	Qual.	Analysis Date	Dilution
13064101 ms	50' From Start of Ditch	Water	89	%Rec		2/28/13	10
13064101 msd	50' From Start of Ditch	Water	88	%Rec		2/28/13	10
IW022713AL1 lcs	Lab Control Standard	Liquid	106	%Rec		2/28/13	1
IW022713AL2 lc2	Lab Control Standard Dup.	Liquid	100	%Rec		2/28/13	1



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

**QUALITY ASSURANCE MEMORANDUM
FOR INORGANIC CHEMICAL ANALYSES**

DATE: March 18, 2013

TO: Jon Klemesrud, Project Manager
Office of, Compliance and Enforcement, Inspection and Enforcement Mgmt Unit, US EPA Region 10

From: Stephanie Le, Chemist
Office of Environmental Assessment, US EPA Region 10 Laboratory

SUBJECT: Quality Assurance Review of Whatcom CAFO Inspections (R. Bajema Farm, Inc.) for Nitrate plus Nitrite and Total Kjeldahl Nitrogen

Project Code: ESD-260F
Account Code: 20132014B10P501E50

The following is a quality assurance review of the results of the analysis of 3 water samples for Nitrate plus Nitrite and Total Kjeldahl Nitrogen (TKN). These samples were submitted for the Whatcom CAFO Inspections Project. The analyses were performed by EPA chemists at the US EPA Region 10 Laboratory in Port Orchard, WA, following US EPA and Laboratory guidelines.

This review was conducted for the following samples:

13064100 13064101 13064104

Data Qualifications

Comments below refer to the quality control specifications outlined in the Laboratory's current Quality Assurance Manual, Standard Operating Procedures (SOPs) and the Quality Assurance Project Plan (QAPP). No excursions were required from the method Standard Operating Procedure.

All measures of quality control met Laboratory/QAPP criteria.

For those tests for which the USEPA Region 10 Laboratory has been accredited by the National Environmental Laboratory Accreditation Conference (NELAC), all requirements of the current NELAC Standard have been met. The Region 10 Laboratory's Quality System has also been accredited to the Standards of the National Environmental Laboratory Accreditation Conference (NELAC).

1. Sample Transport and Receipt

Upon sample receipt, all conditions met Laboratory/QAPP requirements for this project.

2. Sample Holding Times

The concentration of an analyte in a sample or sample extract may increase or decrease over time depending on the nature of the analyte. For this reason, holding time limits are recommended for samples. The samples covered by this review met method holding time recommendations.

12. Definitions

Accuracy - the degree of conformity of a measured or calculated quantity to its actual value.

Duplicate Analysis – when a duplicate of a sample (DU), a matrix spike (MSD), or a laboratory control sample (LCSD) is analyzed, it is possible to use the comparison of the results in terms of relative percent difference (RPD) to calculate precision.

Laboratory Control Sample (LCS) - a clean matrix spiked with known quantities of analytes. The LCS is processed with samples through every step of preparation and analysis. Measuring percent recovery of each analyte in the LCS provides a measurement of accuracy for the analyte in the project samples. A laboratory control sample is prepared and analyzed at a frequency no less than one for every 20 project samples.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) - Sample analyses performed to provide information about the effect of the sample matrix on analyte recovery and measurement within the project samples. To create the MS/MSD, a project sample is spiked with known quantities of analyte and the percent recovery of the analyte is determined.

Method Blank- An analytical control that is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background and reagent contamination. A method blank is prepared and analyzed for every batch of samples at a minimum frequency of one per every 20 samples. To produce unqualified data, the result of the method blank analysis is required to be less than the MRL and less than 10 times the amount of analyte found in any project sample.

Minimum Reporting Level (MRL) - the smallest measured concentration of a substance that can be reliably measured using a given analytical method.

Peak Integrations - The output of many analytical instruments is a peak which represents the quantity of analyte in the sample. The instrument automatically integrates the peak area to provide the concentration of the analyte; however, sometimes these peaks need to be manually integrated by the analyst.

Precision – the degree of mutual agreement or repeatability among a series of individual results.

Relative Percent Difference – The difference between two sample results divided by their mean and expressed as a percentage.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

MEMORANDUM

SUBJECT: Data Release for Inorganic Chemistry Results from the
Region 10 USEPA Laboratory

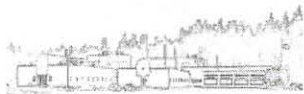
PROJECT NAME: Whatcom CAFO Inspections (R. Bajema Farm, Inc.)

PROJECT CODE: ESD-260F

FROM: Gerald Dodo, Supervisory Chemist
Office of Environmental Assessment
USEPA Region 10 Laboratory

TO: Jon Klemesrud, Project Manager
Office of Compliance and Enforcement,
Inspection and Enforcement Mgmt Unit,
USEPA Region 10

I have authorized release of this data package. Attached you will find the Total Phosphorus results for the Whatcom CAFO Inspections project for the samples received on 02/14/2013. For further information regarding the attached data, contact Katie Adams at (360) 871-8748.



US EPA Region 10 Laboratory

Multi-Sample Final Report



Project Code : ESD-260F

Site : WHATCOM CAFO INSPECTIONS: R. BAJEMA FARMS INC

Contact : Sandra Brozusky

Account : 20132014B10P501E50

Parameter(s): P-total

Analyte: *90049 - Phosphorus, total

Weight Basis : , Wet

Prep Method(s): 365.1 - Phosphorus, (All Forms), Colorimetric, Automated, Ascorbic Acid

Analytical Method: 365.1 - Phosphorus, (All Forms), Colorimetric, Automated, Ascorbic Acid

Target Analyte Results:

Sample	COC Description	Lab Matrix	Result	Unit	Qual.	Analysis Date	Dilution
13064100 sam	75' From Start of Ditch	Water	6.79	mg/L		2/21/13	10
13064101 sam	50' From Start of Ditch	Water	4.68	mg/L		2/21/13	10
13064104 sam	Bottle/ Preservative Blank	Water	0.020	mg/L	U	2/21/13	1
13064100 du	75' From Start of Ditch	Water	6.80	mg/L		2/21/13	10
IW022013ABL blk	Blank	Liquid	0.020	mg/L	U	2/21/13	1

Spiked Compounds:

Sample	COC Description	Lab Matrix	Result	Unit	Qual.	Analysis Date	Dilution
13064100 ms	75' From Start of Ditch	Water		%Rec	NA	2/21/13	10
13064100 msd	75' From Start of Ditch	Water		%Rec	NA	2/21/13	10
IW022013AL1 lcs	Lab Control Standard	Liquid	102	%Rec		2/21/13	1
IW022013AL2 lc2	Lab Control Standard Dup.	Liquid	104	%Rec		2/21/13	1



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

**QUALITY ASSURANCE MEMORANDUM
FOR INORGANIC CHEMICAL ANALYSES**

DATE: February 21, 2013

TO: Jon Klemesrud, Project Manager
Office of, Compliance and Enforcement, Inspection and Enforcement Mgmt Unit, US EPA Region 10

From: Theresa McBride, Chemist
Office of Environmental Assessment, US EPA Region 10 Laboratory

SUBJECT: Quality Assurance Review of Whatcom CAFO Inspections (R. Bajema Farm, Inc.) for Total Phosphorus

Project Code: ESD-260F
Account Code: 20132014B10P501E50

The following is a quality assurance review of the results of the analysis of 3 water samples for Total Phosphorus. These samples were submitted for the Whatcom CAFO Inspections Project. The analyses were performed by EPA chemists at the US EPA Region 10 Laboratory in Port Orchard, WA, following US EPA and Laboratory guidelines.

This review was conducted for the following samples:

13064100 13064101 13064104

Data Qualifications

Comments below refer to the quality control specifications outlined in the Laboratory's current Quality Assurance Manual, Standard Operating Procedures (SOPs) and the Quality Assurance Project Plan (QAPP). No excursions were required from the method Standard Operating Procedure.

All measures of quality control met Laboratory/QAPP criteria.

For those tests for which the USEPA Region 10 Laboratory has been accredited by the National Environmental Laboratory Accreditation Conference (NELAC), all requirements of the current NELAC Standard have been met. The Region 10 Laboratory's Quality System has also been accredited to the Standards of the National Environmental Laboratory Accreditation Conference (NELAC).

1. Sample Transport and Receipt

Upon sample receipt, all conditions met Laboratory/QAPP requirements for this project.

2. Sample Holding Times

The concentration of an analyte in a sample or sample extract may increase or decrease over time depending on the nature of the analyte. For this reason, holding time limits are recommended for samples. The samples covered by this review met method holding time recommendations.

11. Definitions

Accuracy - the degree of conformity of a measured or calculated quantity to its actual value.

Duplicate Analysis – when a duplicate of a sample (DU), a matrix spike (MSD), or a laboratory control sample (LCSD) is analyzed, it is possible to use the comparison of the results in terms of relative percent difference (RPD) to calculate precision.

Laboratory Control Sample (LCS) - a clean matrix spiked with known quantities of analytes. The LCS is processed with samples through every step of preparation and analysis. Measuring percent recovery of each analyte in the LCS provides a measurement of accuracy for the analyte in the project samples. A laboratory control sample is prepared and analyzed at a frequency no less than one for every 20 project samples.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) - Sample analyses performed to provide information about the effect of the sample matrix on analyte recovery and measurement within the project samples. To create the MS/MSD, a project sample is spiked with known quantities of analyte and the percent recovery of the analyte is determined.

Method Blank- An analytical control that is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background and reagent contamination. A method blank is prepared and analyzed for every batch of samples at a minimum frequency of one per every 20 samples. To produce unqualified data, the result of the method blank analysis is required to be less than the MRL and less than 10 times the amount of analyte found in any project sample.

Minimum Reporting Level (MRL) - the smallest measured concentration of a substance that can be reliably measured using a given analytical method.

Precision – the degree of mutual agreement or repeatability among a series of individual results.

Relative Percent Difference – The difference between two sample results divided by their mean and expressed as a percentage.

CHAIN OF CUSTODY

5890

1500 North State Street, Suite 200
Bellingham, WA 98225
(360) 734-9033 FAX (360) 734-0467
TOLL FREE 800/227-9427

CLIENT Sandra Brozusky EPA
ADDRESS 1200 6th Ave, Suite 900, MS. 00E-184
CITY, STATE, ZIP Seattle, WA 98101

CONTACT NAME Sandra Brozusky
DAY PHONE (206) 553-5317
FAX ()

BILLING INFORMATION IF DIFFERENT THAN CLIENT:

NAME _____

ADDRESS _____

CITY, STATE, ZIP _____

COLLECTED BY _____

PHONE ()

PROJECT NAME: Roger Bajema

P.O.# _____

SAMPLE IDENTIFICATION	MATRIX	NO. OF CONTAINERS	SAMPLE DATE/TIME	PRESERVATION	ANALYSIS / METHOD REQUESTED	LOG NO. (LAB USE ONLY)
13074100 - 50' from ditch	water	GLASS PLASTIC 1 OTHER	DATE 2/21/13 TIME 12:58	<input checked="" type="checkbox"/> Ice Other: _____	fecal + E. coli	
13074101 - start of ditch	water	GLASS PLASTIC 1 OTHER	DATE 2/21/13 TIME 1:01 PM	<input checked="" type="checkbox"/> Ice Other: _____	fecal + E. coli	
13074102 - ditch near dry cow	water	GLASS PLASTIC 1 OTHER	DATE 2/21/13 TIME 1:12 PM	<input checked="" type="checkbox"/> Ice Other: _____	fecal + E. coli	
13074103 - transfer blank	water	GLASS PLASTIC 1 OTHER	DATE 2/21/13 TIME 2:05 PM	<input checked="" type="checkbox"/> Ice Other: _____	fecal + E. coli	
		GLASS PLASTIC OTHER	DATE TIME	<input type="checkbox"/> Ice Other: _____		
		GLASS PLASTIC OTHER	DATE TIME	<input type="checkbox"/> Ice Other: _____		
		GLASS PLASTIC OTHER	DATE TIME	<input type="checkbox"/> Ice Other: _____		
		GLASS PLASTIC OTHER	DATE TIME	<input type="checkbox"/> Ice Other: _____		
		GLASS PLASTIC OTHER	DATE TIME	<input type="checkbox"/> Ice Other: _____		
		GLASS PLASTIC OTHER	DATE TIME	<input type="checkbox"/> Ice Other: _____		

REMARKS: Email Results: brozusky.sandra@epa.gov
Bill: Nancy Brown, EPA

RECEIVED VIA: ☒ CLIENT
AET
☐ COURIER ☐ OTHER: _____

ON ICE?
☒ YES ☐ NO
TEMP 6.8 °C

CUSTODY SEAL
☐ YES ☐ NO ☐ N/A

RELEASING SIGNATURE 1. Dana Gott DATE 2/21/13 TIME 2:50 PM
RECEIVING SIGNATURE 1. Cheryl Hays DATE 2/21/13 TIME 14:50

RELEASING SIGNATURE 2. _____ DATE _____ TIME _____
RECEIVING SIGNATURE 2. _____ DATE _____ TIME _____

*Billings
Address*

CLIENT EPA - Nancy Brown
ADDRESS 1200 6th Ave, Suite 900, M/S OCE-184
CITY, STATE, ZIP Seattle, WA 98101

CONTACT NAME Sandra Broz usky
DAY PHONE (206) 553-5317
FAX (206) 553-4743

BILLING INFORMATION IF DIFFERENT THAN CLIENT:

NAME _____

ADDRESS _____

CITY, STATE, ZIP _____

COLLECTED BY _____

PHONE () _____

PROJECT NAME: R Bajema Farm Inc

P.O.# _____

SAMPLE IDENTIFICATION	MATRIX	NO. OF CONTAINERS	SAMPLE DATE/TIME	PRESERVATION	ANALYSIS / METHOD REQUESTED	LOG NO. (LAB USE ONLY)
13064100	water	GLASS	DATE 2/12/13	<input checked="" type="checkbox"/> Ice Other: _____	Fecal coliform, Ecoli, BOD	
		PLASTIC 2	TIME 13:00			
		OTHER				
13064101	water	GLASS	DATE 2/12/13	<input checked="" type="checkbox"/> Ice Other: _____	Fecal Coliform, E-coli, BOD	
		PLASTIC 2	TIME 13:20			
		OTHER				
13064102	water	GLASS	DATE 2/12/13	<input checked="" type="checkbox"/> Ice Other: _____	Fecal Coliform, E. Coli	
		PLASTIC 1	TIME 13:32			
		OTHER				
13064103 - Transfer Blank	water	GLASS	DATE 2/12/13	<input checked="" type="checkbox"/> Ice Other: _____	Fecal Coliform, E. Coli	
		PLASTIC 1	TIME 14:16			
		OTHER				
		GLASS	DATE	<input type="checkbox"/> Ice Other: _____		
		PLASTIC	TIME			
		OTHER				
		GLASS	DATE	<input type="checkbox"/> Ice Other: _____		
		PLASTIC	TIME			
		OTHER				
		GLASS	DATE	<input type="checkbox"/> Ice Other: _____		
		PLASTIC	TIME			
		OTHER				
		GLASS	DATE	<input type="checkbox"/> Ice Other: _____		
		PLASTIC	TIME			
		OTHER				
brozuskys.sandra@epa.gov		GLASS	DATE	<input type="checkbox"/> Ice Other: _____		
		PLASTIC	TIME			
		OTHER				

REMARKS: Sampling Results to: Sandra Broz usky, USEPA
1200 6th Ave, Suite 900, OCE-184
Seattle, WA 98101
#206-553-5317

RECEIVED VIA: ☒ CLIENT
AET
☐ COURIER ☐ OTHER: _____

ON ICE? ☒ YES ☐ NO
TEMP 8.8-10.4°C

CUSTODY SEAL

☐ YES ☐ NO ☐ N/A

RELEASING SIGNATURE 1. Sandra Broz usky DATE 2/12/13 TIME 3:17pm
RECEIVING SIGNATURE 1. Rita Rind DATE 2/12/13 TIME 15:17

RELEASING SIGNATURE 2. _____ DATE _____ TIME _____
RECEIVING SIGNATURE 2. _____ DATE _____ TIME _____